**Cover Sheet for a Hanford
Historical Document
Released for Public Availability**

Released 1994

**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

DECLASSIFIED

DUN-525 23
Hanford Category C65

DATE
May 9, 1968

RICHLAND, WASHINGTON

XX

THIS DOCUMENT CONTAINS RESTRICTED DATA AS
DEFINED IN THE ATOMIC ENERGY ACT OF 1946
AND ITS TECHNICAL SUPPORT ACT OF 1959. DISCLOSURE OF
CONTENTS IN ANY MANNER TO AN UNAUTHORIZED
PERSON IS PROHIBITED.

TITLE

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF APRIL 14, 1968

11

OTHER OFFICIAL CLASSIFIED INFORMATION

THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C., SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

AUTHOR

L. V. Barker

ISSUE 61 FEB 77

BATTELLE NORTHWEST
RECEIVED
MAY 15 1968
CIRCULATING
COPY
PERSONS MAY HAVE ACCESS
TO INFORMATION WITHIN APPROVED

THIS DOCUMENT MUST NOT BE LEFT UNATTENDED OR WHERE AN UNAUTHORIZED PERSON MAY HAVE ACCESS TO IT. WHEN NOT IN USE, IT MUST BE STORED IN AN APPROVED LOCKED REPOSITORY WITHIN AN APPROVED GUARD AREA. IT IS YOUR RESPONSIBILITY TO RETURN IT AND TO SIGN THE RECEIPT FROM THE CLASSIFIED FILE. IT IS YOUR RESPONSIBILITY TO KEEP IT AND TO RETURN IT WITHIN THE LIMITS OF THIS PROJECT AND FROM AN UNAUTHORIZED PERSON. IS TRANSMITTAL TO, AND STORAGE AT, ANY PLACE OF RESIDENCE IS PROHIBITED. IT IS NOT TO BE DUPLICATED. IF ADDITIONAL COPIES ARE REQUIRED, OBTAIN THEM FROM THE RELATED WORKING FILE. ALL PERSONS READING THIS DOCUMENT ARE REQUESTED TO SIGN IN THE SPACE PROVIDED BELOW.

[illegible]

54-5100-166 (10-65)
AEC-RLOO RICHLAND, WASH.

(CLASSIFICATION)

THE

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

This document contains restricted data as defined in the Atomic Energy Act of 1954. Its transmission or disclosure of its contents in any manner to an unauthorized person is prohibited.

This document consists of 9 pages,

DISTRIBUTION

1. LV Barker
2. DUN File
3. DUN Record

Battelle-Northwest

4. FP Brauer/RJ Brouns
5. TT Claudson
6. AJ Jervis
7. RD Leggett

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of RM Hen

CG-NMP-1, 8-3-94

By DK Hanson, 8-15-94

Verified By Jerry Maley,
10-19-94.

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF APRIL 14, 1968

L. V. Barker

May 9, 1968

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

MASTER

DECLASSIFIED

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

DT

This report itemizes the irradiations performed by Testing and Irradiation Services for Battelle-Northwest. It lists the material being irradiated, awaiting disposition and material shipped during the report period. An explanation of the various columns in the report follows:

Identification

- a. TISR No. - This is the official number assigned by Testing and Irradiation Services to an experiment for purposes of identification.
- b. Request Number - Customer experiment identification number, if any.
- c. Material - The principle target material, if known, abbreviated or its chemical symbol in capital letters.
- d. Piece Number - Individual sample or assembly identification.

Operating Time (Days) - The number of full-power operating days the sample has been exposed.

CMK Absorbed - The total cmk absorbed by the sample. Does not include the facility.

Charge Date - Date and time sample charged into reactor or date and time reactor reached one-half equilibrium level if sample was charged during a reactor outage.

Location

- a. Facility - Test facility or process tube and reactor containing the experiment.
- b. Test Hole Position - Sample position in-reactor relative to a process tube.
- c. Position Factor - Location of sample in relation to front-to-rear cosine flux distribution. (This factor only applies to front-to-rear irradiations.)

NOTE: The actual shape may deviate from a cosine curve due to local perturbations. The actual shape will be provided upon request.

Exposure to Date - NVT - The total thermal neutron exposure per square centimeter received to date. This number is calculated from facility unperturbed flux and reactor operating time.

Discharge, Date and Time - Date and time samples were removed from the active portion of the reactor or date and time reactor was down to one-half equilibrium level if sample was discharged during a reactor outage.

Shipping Date - Date samples were shipped to the customer or otherwise disposed of.

LV Barker
Supervisor
Irradiation Testing

LV Barker/k

DECLASSIFIED

IDENTIFICATION				OPERATING TIME (DAYS)	CMK ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS.														
177	DEFULSTED	GRAPH	A0J1	267,2174		02-12-68	2150	BTH -C	0-2080	1.000	1.8+21			
177		GRAPH	A0J3	218,4452		02-12-68	2150	BTH -C	0-2068	1.000	1.5+21			
177		GRAPH	A0J4	218,4452		02-12-68	2150	BTH -C	0-2065	1.000	1.5+21			
177		GRAPH	A0K2	218,4452		02-12-68	2150	BTH -C	0-2074	1.000	1.5+21			
177		GRAPH	A0K3	218,4452		02-12-68	2150	BTH -C	0-2071	1.000	1.5+21			
177		GRAPH	A0K5	267,2174		02-12-68	2150	BTH -C	0-2077	1.000	1.8+21			
177		GRAPH	00J2	55,5093		02-12-68	2150	BTH -C	0-2059	1.000	3.8+20			
177		GRAPH	00K8	55,5093		02-12-68	2150	BTH -C	0-2083	1.000	3.8+20			
177		GRAPH	00K9	55,5093		02-12-68	2150	BTH -C	0-2062	1.000	3.8+20			
177		GRAPH	A0A6	159,4631		09-22-67	0608	3ATH-KE	0-2984	1.000	1.5+21			
177		GRAPH	A0D2	159,4631		09-22-67	0608	3ATH-KE	0-2977	1.000	1.5+21			
177		GRAPH	A0D3	159,4631		09-22-67	0608	3ATH-KE	0-2981	1.000	1.5+21			
222		U	P-12	6,2034		04-01-68	0630	3865-KW		1.000	1.0+20			
222		U	P-13	6,2034		04-01-68	0630	3865-KW		1.000	1.0+20			
222		U	P-17	6,2034		04-01-68	0630	3865-KW		1.000	1.0+20			
236		STEEL	4-14	788,7932		02-28-65	1432	2CTH-KW		1.000	1.0+22			
236		ZR-NB	IV29	6,2034		04-01-68	0630	3ATH-KW		1.000	5.8+19			
236		ZR	4-28	190,1583		08-13-67	0615	3ATH-KE		1.000	1.8+21			
236		ZR-NB	IV31	6,2034		04-01-68	0630	3BTH-KW		1.000	7.9+19			
236		SS	4-24	100,8568		12-07-67	0738	3CTH-KW		1.000	1.3+21			
236		ZIRC	4-30	74,9575		01-14-68	2019	3CTH-KW		1.000	9.5+20			
236		ZIRC	4-25	74,9575		01-14-68	2019	3DTH-KW		1.000	7.0+20			
243		MOLY	0162	53,7811		10-20-67	0930	4CTH-KW		1.000	6.8+20			
259		HASTLY	0A-G	875,5199		12-25-64	2255	ETH -C	0-2177	1.000	3.4+21			
259		HASTLY	0A-H	875,5199		12-25-64	2255	ETH -C	0-2175	1.000	3.4+21			
259		HAST	01-3	55,5098		02-12-68	2150	ETH -C		1.000	2.2+20			
271		VRS	0087	79,7989		01-08-68	0142	2DTH-KE		1.000	7.4+20			
307		FLXMON	0001	944,7932		10-20-64	0526	3BTH-KW		1.000	1.2+22			
372		S-CON	0S-3	249,7328		06-09-67	0038	3CTH-KE		1.000	3.2+21			
376		VRS	0001	158,8631		09-22-67	0608	2DTH-KE	6-2273	1.000	1.5+21			
376		VRS	0002	158,8631		09-22-67	0608	2DTH-KE	6-2272	1.000	1.5+21			
376		VRS	0003	158,8631		09-22-67	0608	2DTH-KE	6-2271	1.000	1.5+21			
376		VRS	0004	158,8631		09-22-67	0608	2DTH-KE	6-2270	1.000	1.5+21			
376	VRS	0005	158,8631		09-22-67	0608	2DTH-KE	6-2269	1.000	1.5+21				
376	VRS	0006	158,8631		09-22-67	0608	2DTH-KE	6-2268	1.000	1.5+21				
376	VRS	0007	158,8631		09-22-67	0608	2DTH-KE	6-2267	1.000	1.5+21				
376	VRS	0008	158,8631		09-22-67	0608	2DTH-KE	6-2266	1.000	1.5+21				
376	VRS	0009	158,8631		09-22-67	0608	2DTH-KE	6-2265	1.000	1.5+21				

DECLASSIFIED

IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS,														
376		VRS	0010	158.8631		09-22-67	0608	2DTH-KE	6-2264	1.000	1.5+21			
376		VRS	0011	158.8631		09-22-67	0608	2DTH-KE	6-2263	1.000	1.5+21			
376		VRS	0012	158.8631		09-22-67	0608	2DTH-KE	6-2262	1.000	1.5+21			
376		VRS	0013	158.8631		09-22-67	0608	2DTH-KE	6-2261	1.000	1.5+21			
376		VRS	0014	158.8631		09-22-67	0608	2DTH-KE	6-2260	1.000	1.5+21			
376		VRS	0015	158.8631		09-22-67	0608	2DTH-KE	6-2259	1.000	1.5+21			
376		VRS	0016	158.8631		09-22-67	0608	2DTH-KE	6-2258	1.000	1.5+21			

DECLASSIFIED

DECLASSIFIED

IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.														
184		VRS	2783	7.7500		12-22-67	1030	2ATH-KW		1.000	1.3+19	12-30-67	0430	
184		VRS	2784	7.7500		12-22-67	1030	2ATH-KW		1.000	5.2+18	12-30-67	0430	
222		UO	P-11	136.6591		09-16-67	1356	3674-KW		1.000	2.2+21	02-25-68	0209	
222		U	P-16	145.9636		02-08-67	0745	3674-KW		1.000	2.3+21	08-08-67	0745	
222		U	P-14	93.8213		05-27-67	1452	3865-KW		1.000	1.5+21	09-13-67	2312	
222		U	P-18	78.2542		10-09-67	0335	3865-KW		1.000	1.3+21	12-30-67	0000	
RECEIVED														

RECEIVED

IDENTIFICATION				OPERATING TIME (DAYS)	CM K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE	
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME		
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH															
172	DELISTED	SEASLT	1430	1.0764		03-18-68	0950	ATH -C		1.000	2.7+18	03-19-68	1100	03-20-68	
172		ORG	1431	.1250		03-19-68	1415	ATH -C		1.000	1.9+17	03-19-68	1715	03-20-68	
172		ORG	1432	.1250		03-19-68	1415	ATH -C		1.000	3.2+17	03-19-68	1715	03-20-68	
172		SEASLT	1433	1.0000		03-28-68	1045	ATH -C		1.000	2.5+18	03-29-68	1045	04-12-68	
172		CPFL	1434	1.9722		03-28-68	1045	ATH -C		1.000	1.2+18	04-05-68	0850	04-06-68	
172		SEASLT	1439	1.0000		03-29-68	1045	ATH -C		1.000	2.5+18	04-05-68	0850	04-12-68	
172		SEASLT	1441	1.0000		04-05-68	1314	ATH -C		1.000	2.5+18	04-06-68	1314	04-15-68	
172		SED	1443	.0417		04-09-68	0900	ATH -C		1.000	4.6+16	04-09-68	1000	04-10-68	
172		SED	1444	.0417		04-09-68	0900	ATH -C		1.000	6.4+16	04-09-68	1000	04-10-68	
172		SEASLT	1445	1.1146		04-09-68	1325	ATH -C		1.000	1.7+18	04-10-68	1610	04-18-68	
172		SEASLT	1446	1.1146		04-09-68	1325	ATH -C		1.000	2.8+18	04-10-68	1610	04-18-68	
172		SEASLT	1447	.0833		03-11-68	1255	ATH -C		1.000	2.1+17	03-11-68	1455	03-21-68	
172		SEASLT	1423	.9292		03-11-68	0957	2ATH-KW		1.000	7.1+17	03-12-68	0815	03-19-68	
172		SEASLT	1424	.9292		03-11-68	0957	2ATH-KW		1.000	7.9+17	03-12-68	0815	03-19-68	
172		SEASLT	1425	.9292		03-11-68	0957	2ATH-KW		1.000	7.9+17	03-12-68	0815	03-19-68	
172		SEASLT	1426	.9292		03-11-68	0957	2ATH-KW		1.000	1.6+18	03-12-68	0815	03-19-68	
172		VRS	1427	.0208		03-11-68	0922	2ATH-KW		1.000	1.4+16	03-11-68	0952	03-12-68	
172		BIO	1428	.0208		03-13-68	0850	2ATH-KW		1.000	1.4+16	03-13-68	0920	03-14-68	
172		CLO	1429	.0104		03-14-68	0855	2ATH-KW		1.000	8.8+15	03-14-68	0910	03-15-68	
172		STDS	1456	.9667		04-16-68	1023	2ATH-KW		1.000	8.2+17	04-17-68	0935	04-18-68	
172		STDS	1457	.9667		04-16-68	1023	2ATH-KW		1.000	8.2+17	04-17-68	0935	04-18-68	
172		STDS	1458	.9667		04-16-68	1023	2ATH-KW		1.000	8.2+17	04-17-68	0935	04-18-68	
172		VRS	1435	2.0035		03-29-68	0830	2DTH-KE		1.000	1.9+19	03-31-68	0835	03-31-68	
172		VRS	1436	2.0035		03-29-68	0830	2DTH-KE		1.000	1.9+19	03-31-68	0835	03-31-68	
172		VRS	1437	2.0035		03-29-68	0830	2DTH-KE		1.000	1.9+19	03-31-68	0835	03-31-68	
172		VRS	1438	2.0035		03-29-68	0830	2DTH-KE		1.000	1.9+19	03-31-68	0835	03-31-68	
172		PLA	1442	.0417		04-07-68	0835	2DTH-KE		1.000	2.8+16	04-07-68	0935	04-08-68	
172		BIO	1448	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1449	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1450	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1451	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1452	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1453	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1454	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
172		BIO	1455	.0208		04-13-68	0900	2DTH-KE		1.000	1.9+17	04-13-68	0930	04-14-68	
177		GRAPH	ANCH		512.6073		05-06-66	1410	4BTH-KE	0-4382	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	00C6		512.6073		05-06-66	1410	4BTH-KE	0-4367	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0140		512.6073		05-06-66	1410	4BTH-KE	0-4379	1.000	6.5+21	03-17-68	2000	03-25-68

DELETED

IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
177	RECEIVED	GRAPH	0143	512.6073		05-06-66	1410	4BTH-KE	0-4376	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0188	512.6073		05-06-66	1410	4BTH-KE	0-4364	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0189	512.6073		05-06-66	1410	4BTH-KE	0-4361	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0190	512.6073		05-06-66	1410	4BTH-KE	0-4373	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0191	512.6058		05-06-66	1410	4BTH-KE	0-4370	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0192	512.6058		05-06-66	1410	4BTH-KE	0-4358	1.000	6.5+21	03-17-68	2000	03-25-68
177		GRAPH	0193	512.6058		05-06-66	1410	4BTH-KE	0-4355	1.000	6.5+21	03-17-68	2000	03-25-68
184		VRS	0C-8	.0007		03-13-68	1324	ATH -C		1.000	1.1+15	03-13-68	1325	03-13-68
184		PLA	0C-9	.0007		03-16-68	1055	ATH -C		1.000	1.1+15	03-16-68	1056	03-16-68
184		VRS	0C10	.8681		03-26-68	1315	ATH -C		1.000	3.5+18	03-27-68	1005	03-27-68
184		PLA	0C11	.0007		03-29-68	1045	ATH -C		1.000	1.1+15	03-29-68	1046	03-29-68
184		PLA	0C12	.0007		04-05-68	1310	ATH -C		1.000	1.1+15	04-05-68	1311	04-06-68
184		PLA	0C13	.0007		04-13-68	1152	ATH -C		1.000	1.1+15	04-13-68	1153	04-14-68
184		PLA	0C14	.0007		04-13-68	1156	ATH -C		1.000	1.1+15	04-13-68	1157	04-14-68
184		VRS	2955	.8125		03-12-68	1115	2ATH-KW		1.000	7.6+18	03-13-68	0645	03-13-68
184		VRS	2956	.8125		03-12-68	1115	2ATH-KW		1.000	7.6+18	03-13-68	0645	03-13-68
184		VRS	2957	.8333		03-13-68	1045	2ATH-KW		1.000	7.8+18	03-14-68	0645	03-14-68
184		VRS	2958	.8333		03-13-68	1045	2ATH-KW		1.000	7.8+18	03-14-68	0645	03-14-68
184		VRS	2959	.8542		03-14-68	1015	2ATH-KW		1.000	1.4+18	03-15-68	0645	03-15-68
184		VRS	2960	.8542		03-14-68	1015	2ATH-KW		1.000	1.4+18	03-15-68	0645	03-15-68
184		VRS	2961	.9514		03-17-68	0755	2ATH-KW		1.000	8.9+18	03-18-68	0645	03-18-68
184		VRS	2962	.9514		03-17-68	0755	2ATH-KW		1.000	8.9+18	03-18-68	0645	03-18-68
184		VRS	2963	.8750		03-18-68	0950	2ATH-KW		1.000	8.1+18	03-19-68	0650	03-19-68
184		VRS	2964	.8750		03-18-68	0950	2ATH-KW		1.000	8.1+18	03-19-68	0650	03-19-68
184		VRS	2965	.8437		03-19-68	1035	2ATH-KW		1.000	7.9+18	03-20-68	0650	03-20-68
184		VRS	2966	.8437		03-19-68	1035	2ATH-KW		1.000	7.9+18	03-20-68	0650	03-20-68
184		VRS	2967	.8681		03-20-68	1000	2ATH-KW		1.000	8.1+18	03-21-68	0650	03-21-68
184		VRS	2968	.8681		03-20-68	1000	2ATH-KW		1.000	8.1+18	03-21-68	0650	03-21-68
184		VRS	2969	.8542		03-21-68	1015	2ATH-KW		1.000	1.4+18	03-22-68	0645	03-22-68
184		VRS	2970	.8542		03-21-68	1015	2ATH-KW		1.000	1.4+18	03-22-68	0645	03-22-68
184		VRS	2971	.8958		03-24-68	0915	2ATH-KW		1.000	8.3+18	03-25-68	0645	03-25-68
184		VRS	2972	.8958		03-24-68	0915	2ATH-KW		1.000	8.3+18	03-25-68	0645	03-25-68
184		VRS	2973	.8646		03-25-68	1000	2ATH-KW		1.000	8.0+18	03-26-68	0645	03-26-68
184	VRS	2974	.8646		03-25-68	1000	2ATH-KW		1.000	8.0+18	03-26-68	0645	03-26-68	
184	VRS	2990	.8750		04-07-68	0945	2ATH-KW		1.000	8.1+18	04-08-68	0645	04-08-68	
184	VRS	2991	.8750		04-07-68	0945	2ATH-KW		1.000	8.1+18	04-08-68	0645	04-08-68	
184	VRS	3006	.8333		04-17-68	1045	2ATH-KW		1.000	7.8+18	04-18-68	0645	04-18-68	
184	VRS	3007	.8333		04-17-68	1045	2ATH-KW		1.000	7.8+18	04-18-68	0645	04-18-68	

RECEIVED

IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
184		PLA	6433	.0007		03-19-68	1022	2ATH-KW		1.000	5.9+14	03-19-68	1023	03-20-68
184		VRS	2953	.8437		03-11-68	1030	2DTH-KE		1.000	7.9+18	03-12-68	0645	03-12-68
184		VRS	2954	.8437		03-11-68	1030	2DTH-KE		1.000	7.9+18	03-12-68	0645	03-12-68
184		VRS	2975	.8715		03-26-68	0950	2DTH-KE		1.000	8.1+18	03-27-68	0645	03-27-68
184		VRS	2976	.8715		03-26-68	0950	2DTH-KE		1.000	8.1+18	03-27-68	0645	03-27-68
184		VRS	2977	.8542		03-27-68	1015	2DTH-KE		1.000	7.9+18	03-28-68	0645	03-28-68
184		VRS	2978	.8542		03-27-68	1015	2DTH-KE		1.000	7.9+18	03-28-68	0645	03-28-68
184		VRS	2979	.8542		03-28-68	1015	2DTH-KE		1.000	7.9+18	03-29-68	0645	03-29-68
184		VRS	2980	.8542		03-28-68	1015	2DTH-KE		1.000	7.9+18	03-29-68	0645	03-29-68
184		VRS	2981	.8646		03-31-68	1000	2DTH-KE		1.000	8.0+18	04-01-68	0645	04-01-68
184		VRS	2982	.8646		03-31-68	1000	2DTH-KE		1.000	8.0+18	04-01-68	0645	04-01-68
184		VRS	2983	.8576		04-01-68	1010	2DTH-KE		1.000	8.0+18	04-02-68	0645	04-02-68
184		VRS	2984	.8576		04-01-68	1010	2DTH-KE		1.000	8.0+18	04-02-68	0645	04-02-68
184		VRS	2985	.8576		04-01-68	1010	2DTH-KE		1.000	8.0+18	04-02-68	0645	04-02-68
184		VRS	2986	.8403		04-02-68	1035	2DTH-KE		1.000	7.8+18	04-03-68	0645	04-03-68
184		VRS	2987	.8403		04-02-68	1035	2DTH-KE		1.000	7.8+18	04-03-68	0645	04-03-68
184		VRS	2988	.8576		04-03-68	1010	2DTH-KE		1.000	8.0+18	04-04-68	0645	04-04-68
184		VRS	2989	.8576		04-03-68	1010	2DTH-KE		1.000	8.0+18	04-04-68	0645	04-04-68
184		VRS	2992	.8437		04-08-68	1030	2DTH-KE		1.000	7.9+18	04-09-68	0645	04-09-68
184		VRS	2993	.8437		04-08-68	1030	2DTH-KE		1.000	7.9+18	04-09-68	0645	04-09-68
184		VRS	2994	.8542		04-09-68	1005	2DTH-KE		1.000	7.9+18	04-10-68	0645	04-10-68
184		VRS	2995	.8542		04-09-68	1005	2DTH-KE		1.000	7.9+18	04-10-68	0645	04-10-68
184		VRS	2996	.8646		04-10-68	1000	2DTH-KE		1.000	8.0+18	04-11-68	0645	04-11-68
184		VRS	2997	.8646		04-10-68	1000	2DTH-KE		1.000	8.0+18	04-11-68	0645	04-11-68
184		VRS	2998	.8646		04-11-68	1000	2DTH-KE		1.000	8.0+18	04-12-68	0645	04-12-68
184		VRS	2999	.8646		04-11-68	1000	2DTH-KE		1.000	8.0+18	04-12-68	0645	04-12-68
184		VRS	3000	.9340		04-14-68	0820	2DTH-KE		1.000	8.7+18	04-15-68	0645	04-15-68
184		VRS	3001	.9340		04-14-68	0820	2DTH-KE		1.000	8.7+18	04-15-68	0645	04-15-68
184		VRS	3002	.8507		04-15-68	1020	2DTH-KE		1.000	7.9+18	04-16-68	0645	04-16-68
184		VRS	3003	.8507		04-15-68	1020	2DTH-KE		1.000	7.9+18	04-16-68	0645	04-16-68
184		VRS	3004	.8403		04-16-68	1035	2DTH-KE		1.000	7.8+18	04-17-68	0645	04-17-68
184		VRS	3005	.8403		04-16-68	1035	2DTH-KE		1.000	7.8+18	04-17-68	0645	04-17-68
184		PLA	6434	.0035		04-02-68	1005	2DTH-KE		1.000	5.9+15	04-02-68	1010	04-03-68
243		MOLY	0161	47.5833		10-20-67	0930	4CTH-KW		1.000	6.0+20	04-01-68	1000	04-08-68
243		VRS	164R	1.9479		02-28-68	1000	4CTH-KW		1.000	2.5+19	03-01-68	0845	04-01-68
271		DEPU	0088	2.9896		03-15-68	0915	2ATH-KW		1.000	2.8+19	03-18-68	0900	03-19-68
271		RU-CE	0089	3.9722		03-15-68	0915	2ATH-KW		1.000	3.7+19	03-19-68	0835	03-20-68
271		NA	0090	.0139		03-25-68	0840	2ATH-KW		1.000	1.3+17	03-25-68	0900	03-25-68

DECLASSIFIED

IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE N V T	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
271		TB	0091	.0833		03-27-68	0715	2DTH-KE		1.000	7.8+17	03-27-68	0915	03-28-68
271		DEP-U	0092	3.3514		04-06-68	1300	2DTH-KE		1.000	3.1+19	04-09-68	2126	04-10-68
372		S-CON	0S-2	229.8119		06-09-67	0038	3CTH-KE		1.000	2.9+21	03-17-68	2000	04-03-68
DECLASSIFIED														

DECLASSIFIED

DOUGLAS UNITED NUCLEAR, INC.

RICHLAND, WASHINGTON

NOTICE

THIS REPORT WAS PREPARED FOR USE WITHIN DOUGLAS UNITED NUCLEAR, INC. IN THE COURSE OF WORK UNDER ATOMIC ENERGY COMMISSION CONTRACT AT(45-1) - 1857, AND ANY VIEWS OR OPINIONS EXPRESSED IN THE REPORT ARE THOSE OF THE AUTHOR ONLY. THIS REPORT IS SUBJECT TO REVISION UPON COLLECTION OF ADDITIONAL DATA.

LEGAL NOTICE

THIS REPORT WAS PREPARED AS AN ACCOUNT OF GOVERNMENT SPONSORED WORK. NEITHER THE UNITED STATES, NOR THE COMMISSION, NOR ANY PERSON ACTING ON BEHALF OF THE COMMISSION:

A. MAKES ANY WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, WITH RESPECT TO THE ACCURACY, COMPLETENESS, OR USEFULNESS OF THE INFORMATION CONTAINED IN THIS REPORT, OR THAT THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THIS REPORT MAY NOT INFRINGE PRIVATELY OWNED RIGHTS; OR

B. ASSUMES ANY LIABILITIES WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THIS REPORT.

AS USED IN THE ABOVE, "PERSON ACTING ON BEHALF OF THE COMMISSION" INCLUDES ANY EMPLOYEE OR CONTRACTOR OF THE COMMISSION, OR EMPLOYEE OF SUCH CONTRACTOR, TO THE EXTENT THAT SUCH EMPLOYEE OR CONTRACTOR OF THE COMMISSION, OR EMPLOYEE OF SUCH CONTRACTOR PREPARES, DISSEMINATES, OR PROVIDES ACCESS TO, ANY INFORMATION PURSUANT TO HIS EMPLOYMENT OR CONTRACT WITH THE COMMISSION, OR HIS EMPLOYMENT WITH SUCH CONTRACTOR.